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# NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

11/19/2004

Attn: Stephen P. Evans, Esq. Marshall & Melhorn, LLC Eighth Floor Four SeaGate Toledo, OH 43604

RECEIVED	EXAM	IINER
DEC 1 6 2004	RODRIGL	JEZ, SAUL
5 L 6 Z4 <del>04</del>	ART UNIT	PAPER NUMBER
GROUP 360M	3681 AILED: 11/19/200	14

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/677,928	10/02/2003	Mark RJ Versteyhe	· 1-15977	9583

TITLE OF INVENTION: CLUTCH BRAKING IN A MULTI-SPEED TRANSMISSION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1370	\$300	\$1670	02/22/2005

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

Complete and send-this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

			or <u>Fax</u>	(703) 746-4000		
INSTRUCTIONS: This for appropriate. All further cor indicated unless corrected I maintenance fee notification	below or directed otherwise	mitting the ISSU atent, advance or in Block 1, by (a)	E FEE and PUBLIC ders and notification ) specifying a new c	CATION FEE (if requor of maintenance fees orrespondence address	uired). Blocks 1 through 5 sl will be mailed to the current s; and/or (b) indicating a sepa	nould be completed where correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENC	CE ADDRESS (Note: Use Block I for a	any change of address)		Note: A certificate o Fee(s) Transmittal. T	f mailing can only be used for his certificate cannot be used for	or domestic mailings of the
75	590 11/19/2004			have its own certifica	al paper, such as an assignme te of mailing or transmission.	nt or formal drawing, must
Attn: Stephen P.	Evans, Esq.			Ce	rtificate of Mailing or Trans	mission
Marshall & Melhor	m, LLC			I hereby certify that t	his Fee(s) Transmittal is being	g deposited with the United
Eighth Floor				addressed to the Ma	his Fee(s) Transmittal is being with sufficient postage for fir il Stop ISSUE FEE address PTO (703) 746-4000, on the d	above, or being facsimile
Four SeaGate Toledo, OH 43604				transmitted to die 03	110 (703) 740-4000, on the t	(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/677,928	10/02/2003		Mark RJ Versteyl	ie	1-15977	9583
TITLE OF INVENTION: C	LUTCH BRAKING IN A M	ULTI-SPEED TR	ANSMISSION			
APPLN, TYPE	SMALL ENTITY	ISSUE FE	e Di	JBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
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PTO/SB/47; Rev 03-02 of Number is required.	or more recent) attached. Use	of a Customer	2 registered patent listed, no name wi	attorneys or agents. I ll be printed.	f no name is 3	<del></del>
B. ASSIGNEE NAME AND	RESIDENCE DATA TO BI	E PRINTED ON T	HE PATENT (print	or type)	<del></del>	· · · · · · · · · · · · · · · · · · ·
PLEASE NOTE: Unless recordation as set forth in	an assignee is identified be 37 CFR 3.11. Completion of	low, no assignee of this form is NOT	data will appear on t a substitute for filin	he patent. If an assig g an assignment.	nee is identified below, the d	ocument has been filed for
(A) NAME OF ASSIGN	EE	(B)	) RESIDENCE: (CIT	Y and STATE OR CO	UNTRY)	
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la. The following fee(s) are				- maividuai - C	corporation of other private gro	oup entity Government
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Change in Entity Status	(from status indicated above)		Deposit Account Nu	mber	(enclose an extra co	opy of this form).
	MALL ENTITY status. See 3		b. Applicant is no	longer claiming SMA	LL ENTITY status. See 37 Cl	FR 1.27(g)(2).
					ly paid issue fee to the applica sistered attorney or agent; or the	
nterest as shown by the reco	ords of the United States Pater	nt and Trademark	Office.	an the applicant, a reg		e assignee or other party in
Authorized Signature				Date		
Typed or printed name					ı No	
his collection of information	on is required by 37 CFR 1.31	1. The information	is required to obtain	or retain a benefit by	the public which is to file (and	by the USPTO to process)
n application. Confidentiali ubmitting the completed ap his form and/or suggestions 80x 1450, Alexandria, Virgi klexandria, Virginia 22313-	ity is governed by 35 U.S.C. oplication form to the USPTC for reducing this burden, should 22313-1450. DO NOT Section 1450	122 and 37 CFR I D. Time will vary ould be sent to the END FEES OR C	.14. This collection is depending upon the Chief Information COMPLETED FORM	s estimated to take 12 ndividual case. Any c officer, U.S. Patent and S TO THIS ADDRES	the public which is to file (and minutes to complete, includin omments on the amount of tir I Trademark Office, U.S. Depa S. SEND TO: Commissioner	g gathering, preparing, and ne you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,
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## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspio.gov

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10/677,928	10/02/2003	Mark RJ Versteyhe	1-15977	9583
7:	590 11/19/2004		EXAM	INER
Attn: Stephen P.			RODRIGU	EZ, SAUL
Marshall & Melhor Eighth Floor	m, LLC		ART UNIT	PAPER NUMBER
Four SeaGate			3681	
Toledo, OH 43604			DATE MAILED: 11/19/200	4

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)
	Application No.	Applicant(s)
Motion of Allowahility	10/677,928	VERSTEYHE, MARK RJ
Notice of Allowability	Examiner	Art Unit
	Saúl J. Rodríguez	3681
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313  1. This communication is responsive to  2. The allowed claim(s) is/are 1-19.	(OR REMAINS) CLOSED in this apply or other appropriate communication IGHTS. This application is subject to	plication. If not included n will be mailed in due course. THIS
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3. The drawings filed on are accepted by the Examine	r.	
<ul> <li>4. ☐ Acknowledgment is made of a claim for foreign priority una a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give		
<ol> <li>CORRECTED DRAWINGS ( as "replacement sheets") must</li> <li>(a) ☑ including changes required by the Notice of Draftspers</li> <li>1) ☑ hereto or 2) ☐ to Paper No./Mail Date</li> <li>(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the</li> </ol>	son's Patent Drawing Review (PTO s Amendment / Comment or in the C .84(c)) should be written on the drawin	Office action of ngs in the front (not the back) of
DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT I		
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Dat 98), 7. ☐ Examiner's Amendr	te

Y.

## **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance:

Claim 1 recites the combination of a prime mover, a transmission system with a first and second stages and range and direction clutches, an output shaft, and a torque converter; wherein one of the range clutches and one the direction clutches are kinematically locked and at least one other range clutch is slipped and at least one other direction clutch is slipped to brake the transmission system.

Claim 7 recites the combination of a prime mover, a transmission system with a first and second stages and range and direction clutches, an output shaft, and a torque converter; wherein at least two of the range clutches are locked together and the directional clutches are slipped about the range clutches to brake the transmission system.

Claim 13 recites the combination of a prime mover, a transmission system with a first and second stages and range and direction clutches, an output shaft, and a torque converter; wherein the range clutches are opened and one of the directional clutches is locked, and the remaining directional clutches are slipped to brake the transmission.

The aforementioned combinations are not shown or taught by the prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Pecceu ('728) disclose another multi stage transmission. Muller discloses a multi-stage transmission comprising a conventional hydrodynamic braking device.

Tsuboi et al. and Antonov disclose other multi-stage transmission having means for engine braking.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Saúl J. Rodríguez whose telephone number is (703) 308-7575. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles A. Marmor can be reached on (703) 308-308-0830. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 3681

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Saúl J. Rodríguez

Art Unit 3681

SJR

#### Application/Control No. Applicant(s)/Patent Under Reexamination 10/677,928 VERSTEYHE, MARK RJ Notice of References Cited Examiner Art Unit Page 1 of 1 Saúl J. Rodríguez 3681

#### **U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
X	Α	US-4,471,670	09-1984	Muller, Helmut	74/731.1
X	В	US-5,213,551 A	05-1993	Antonov, Roumen A.	475/257
X	С	US-5,676,026	10-1997	Tsuboi et al.	74/606R
X	D	US-6,044,728 A	04-2000	Pecceu, Hendrik	74/730.1
	E	US-			
	F	US-			
	G	US-			
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	К	US-			
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#### **FOREIGN PATENT DOCUMENTS**

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### **NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings: Black ink or Color (3 sets required).  Color drawings are not acceptable until petition is granted. Fig(s) Pencil and non black ink not permitted. Fig(s) Pencil and non black ink not permitted. Fig(s) Photographs may not be mounted. 37 CFR 1.84(c) Photographs must meet paper size requirements of 37 CFR 1.84(f). Fig(s) Paper not flexible, strong, white, and durable. Fig(s) Paper not flexible, strong, white, and durable. Fig(s) Erasures, alterations, overwritings. interlineations, folds, copy machine marks not accepted. Fig(s) 4. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes: Sheet(s) Drawings sheets not the same size. Sheet(s) Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm Margins not acceptable. Fig(s) Top (7) Left (L) Right (R) Bottom (B) 6. VIEWS. 37 CFR 1.84(f): Acceptable margins: Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm Margins not acceptable. Fig(s) Top (T) Left (L) Right (R) Bottom (B) 6. VIEWS. 37 CFR 1.84(h) Fig(s) 7. SECTIONAL VIEWS. 37 CFR 1.84(h)(3) Sectional designation should be noted with Arabic or Roman numbers. Fig(s)  Table of drawings: Black ink or Color of that the top becomes the right side, excer fraghts frig(s)  Scale not large enough to show mechani without crowding when drawing is redusize to two-thirds in reproduction. Fig(s)  10. CHARACTER OF LINES, NUMBER LETTERS, 37 CFR 1.84(h) Lines, numbers & letters not uniformly it well defined, clean, durable, and black (quality). Fig(s)  11. SHADING. 37 CFR 1.84(m) Xoolid black shading not permitted. Fig(s) Numbers and reference characters not on the same direction as the view. 37 CFR 1.84(f) Numbers and reference characters not on the same direction as the view. 37 CFR 1.84(f) Numbers and reference characters at least 32 cm (1/8 inch) in height. 37 CFR 1.84(f) Sheets not numbers designed in with number 1. She changed to Fig. 1A, Fig 1B and Fig. 1C, etc., the specification, at the Brief Description of the Drawings, must likewise be changed. Views not labeled separate
Surface shading shown not appropriate.  Fig(s)  Solid black surface shading is not permit when used to represent the color black as
color contrast. Fig(s)